Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

ame of Work: Improvements to roads and drains at 4th A cross and 1st B main and surrounding areas of B sector in Ward no-04

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	vil Work								
	RRB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary il excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after reaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 8KM	77.48							
	Total	**215.28**							
		Cum							
	RCC Drain								
	Ward 04, B sector								
	14th B cross		2	291.00	1.10	1.10	704.22		
	5th B main		2	203.00	1.10	1.10	491.26		
	1st B main		1	400.00	1.10	1.10	484.00		
	12th B cross		2	114.00	1.10	1.00	250.80		
	13th B cross		2	110.00	1.10	1.00	242.00		
	3rd B main		2	127.00	1.10	1.00	279.40		
	Culvert		5	6.80	1.50	1.00	51.00		
				Area					
	Rain Water Harvesting pits		15	0.31		1.80	8.37		
							2511.05	**215.28**	**540578.84**
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
	Data rate	1901.00		Area					
	a) 40mm Jelly	Cum	15	0.31		0.40	1.86	1901	3,535.86
	Data rate	1901.00							
	b) 20mm Jelly	Cum	15	0.31		0.40	1.86	1901	3,535.86
	Data rate	2651.00							
	c) Coarse sand.	Cum	15	0.31		0.30	1.40	2651	3,698.15
	Data rate	2651.00							
	d) Fine Sand	Cum	15	0.31		0.20	0.93	2651	2,465.43
	Data rate	1901.00							
	e) 12.5mm chips	Cum	15	0.31		0.30	1.40	1901	2,651.90

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
plying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with st amendments and conveyingto work site including loading and unloading at both destinations l rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving draulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and mmissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle e, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own rangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** erforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code o. K010Q)								
Basic rate	12121.00							
Deduct 12% GST	1298.68							
Total	10822.32							
	Rmt							
0.63m dia HDPE Perforated		15	1.80			27.00		
						27.00	**10822.32**	**292202.64**
Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
Data rate	71.03		Area					
	Sqm	15	0.31			**4.65**	**71.03**	**330.29**
KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
Basic rate	5115.00							
Area Weightage 6%	306.90							
Total	**5421.90**							
	Cum							
RCC Drain								
Ward 04, B sector								
14th B cross		2	291.00	1.10	0.15	96.03		
5th B main		2	203.00	1.10	0.15	66.99		
1st B main		1	400.00	1.10	0.15	66.00		
12th B cross		2	114.00	1.10	0.15	37.62		
13th B cross		2	110.00	1.10	0.15	36.30		
3rd B main		2	127.00	1.10	0.15	41.91		
Culvert		5	6.80	1.50	0.15	7.65		
For Kerb Stone								
Ward 04, B sector								
14th B cross		2	291.00	0.20	0.10	11.64		
5th B main		2	203.00	0.20	0.10	8.12		
1st B main		1	400.00	0.20	0.10	8.00		
12th B cross		2	114.00	0.20	0.10	4.56		
13th B cross		2	110.00	0.20	0.10	4.40		
3rd B main		2	127.00	0.20	0.10	5.08		
						394.30	5421.90	2137855.17

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix** concrete with **OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
		Cum							
	RCC Drain								
	Raft								
	Ward 04, B sector								
	14th B cross		2	291.00	0.90	0.15	78.57		
	5th B main		2	203.00	0.90	0.15	54.81		
	1st B main		1	400.00	0.90	0.15	54.00		
	12th B cross		2	114.00	0.90	0.15	30.78		
	13th B cross		2	110.00	0.90	0.15	29.70		
	3rd B main		2	127.00	0.90	0.15	34.29		
	Wall								
	Ward 04, B sector								
	14th B cross		4	291.00	0.15	0.60	104.76		
	5th B main		4	203.00	0.15	0.60	73.08		
	1st B main		2	400.00	0.15	0.60	72.00		
	12th B cross		4	114.00	0.15	0.60	41.04		
	13th B cross		4	110.00	0.15	0.60	39.60		
	3rd B main		4	127.00	0.15	0.60	45.72		
							658.35		
	Culvert Raft		5	6.80	1.20	0.20	8.16		
	Culvert Wall		10	6.80	0.23	0.60	9.38		
							17.54		
							675.89	**7070.20**	**4778705.76**
7	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area Weightage 6%	4188.24							
	Total	**73992.24**							
		Tn							
	RCC Drain			658.35	0.06		39.50		
	For Drain 60kg/cum			17.54	0.09		1.58		
	For Culvert 90kg/cum						**41.08**	**73992.24**	**3039598.26**
8	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Sqm							
	CC Drain								
	Ward 04, B sector								
	14th B cross		2	291.00	0.90		523.80		
	5th B main		2	203.00	0.90		365.40		
	1st B main		1	400.00	0.90		360.00		
	12th B cross		2	114.00	0.90		205.20		
	13th B cross		2	110.00	0.90		198.00		
	3rd B main		2	127.00	0.90		228.60		
							1881.00	2337.00	4395897.00
	Providing and fixing **RCC precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	Culvert		5	6.80	1.20		40.80		
							40.80	5418.00	221054.40
10	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	432.48							
	For Drain	Nos							
	Ward 04, B sector								
	14th B cross		2	291.00			582.00		
	5th B main		2	203.00			406.00		
	1st B main		1	400.00			400.00		
	12th B cross		2	114.00			228.00		
	13th B cross		2	110.00			220.00		
	3rd B main		2	127.00			254.00		
							2090.00	m	
							4644.00	nos	
							4644.00	432.48	2008437.12
11	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	84.80							
	For Drain	Sqm							
	Ward 04, B sector								
	14th B cross		2	291.00		0.40	232.80		
	5th B main		2	203.00		0.40	162.40		
	1st B main		1	400.00		0.40	160.00		
	12th B cross		2	114.00		0.40	91.20		
	13th B cross		2	110.00		0.40	88.00		
	3rd B main		2	127.00		0.40	101.60		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
						836.00	84.80	70,892.80
							Total Construction Cost	17501439.48
							Towards GST 12%	2100172.74
							DPR & PMC Charges 2%	398000.00
							Sub Total	19999612.22
							Miscellaneous & Rounding Off	387.78
							Total	20000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded For R.S. Rd. Yelahanka
Head of A/C P-3768
CE/NO 62 Dt. 28/8/2020
CE (NK)

Administrative Sanction for Rs. 200.00 lakhs
[Rupees Two crore Only]
is accorded under head P-3768
Special Development works
Registered as CE No. 66. Subject to conditions contained in enclosed memo No BBMP/CE (NKV. D/A.S./66/2020-21 Dt. 27/11/2020

Executive Engineer